DRINKING WATER REGULATIONS

AND HEALTH ADVISORIES

by

Office of Water
U.S. Environmental Protection Agency
Washington, D.C.
202-260-7571

SAFE DRINKING WATER HOTLINE
1-800-426-4791
Monday thru Friday, 9:00 AM to 5:30 PM EST

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LEGEND

Abbreviations column descriptions are:

MCLG - Maximum Contaminant Level Goal. A non-enforceable concentration of a drinking water contaminant that is protective of adverse human health effects and allows an adequate margin of safety.

MCL - Maximum Contaminant Level. Maximum permissible level of a contaminant in water which is delivered to any user of a public water system.

RfD - Reference Dose. An estimate of a daily exposure to the human population that is likely to be without appreciable risk of deleterious effects over a lifetime.

DWEL - Drinking Water Equivalent Level. A lifetime exposure concentration protective of adverse, non-cancer health effects, that assumes all of the exposure to a contaminant is from a drinking water source.

(*) The codes for the Status Reg and Status HA columns are as follows:

F - final
D - draft
L - listed for regulation.
P - proposed
T - tentative

Other codes found in the table include the following:

NA - not applicable
PS - performance standard 0.5 NTU - 1.0 NTU
TT - treatment technique

** - No more than 5% of the samples per month may be positive. For systems collecting fewer than 40 samples/month, no more than 1 sample per month may be positive.

*** - guidance

- Large discrepancies between Lifetime and Longer-term HA values may occu because of the Agency's conservative policies, especially with regard to carcinogenicity, relative source contribution, and less than lifetime exposures chronic toxicity testing. These factors can result in a cumulative UF (uncerta factor) of up to 5 to 5000 when calculating a Lifetime HA.

The scheme for categorizing chemicals according to their carcinogenic potentia is as follows: *

Group A: Human carcinogen

Sufficient evidence in epidemiologic studies to support causal association between exposure and cancer

Group B: Probable human carcinogen

Limited evidence in epidemiologic studies (Group B1) *and/or* sufficient evidence from animal studies (Group B2)

Group C: Possible human carcinogen

Limited evidence from animal studies *and* inadequate or no data in humar

Group D: Not classifiable

Inadequate or no human and animal evidence of carcinogenicity

Group E: No evidence of carcinogenicity for humans

No evidence of carcinogenicity in at least two adequate animal tests in different species *or* in adequate epidemiologic and animal studies

Drinking Water Health Advisories (HAs) are defined as follows:

One-day HA

The concentration of a chemical in drinking water that is not expected to cause any adverse noncarcinogenic effects for up to 5 consecutive days of exposure, with a margin of safety.

Ten-day HA

The concentration of a chemical in drinking water that is not expected to cause any adverse noncarcinogenic effects up to 14 consecutive days of exposure, with a margin of safety.

Long-term HA

The concentration of a chemical in drinking water that is not expected to cause any adverse noncarcinogenic effects up to approximately 7 years (10% of an individual's lifetime) of exposure, with a margin of safety.

*EPA is in the process of revising the Cancer Guidelines.

Lifetime HA

The concentration of a chemical in drinking water that is not expected to any adverse noncarcinogenic effects over a lifetime of exposure, with a of safety.

Drinking Water Standards and Health Advisories

Chemicals	Regulations			Drinking Water HA	Health Advisories							Cancer Group
					10-kg Child			70-kg Adult				
					One-day (mg/l)	Ten-day (mg/l)	Longer-term (mg/l)	Longer-term (mg/l)	RfD (mg/kg/day)	DWEL (mg/l)	Lifetime (mg/l)	mg/l at 10^{-4} Cancer Risk	
ORGANICS-													
Acenaphthene	-	-	-	-	-	-	-	-	0.06	-	-	-	-
Acifluorfen	T	zero	0.007	F	2	2	0.1	0.4	0.013	0.4	-	0.1	B2
Acrylamide	F	zero	TT	F	1.5	0.3	0.02	0.07	0.002	0.007	-	0.001	B2
Acrylonitrile	T	zero	0.005	D	-	-	-	-	-	-	-	0.006	B1
Adipate (diethylhexyl)	F	0.4	0.4	-	20	20	20	80	0.6	20	0.4	3	C
Alachlor	F	zero	0.002	F	0.1	0.1	*	*	0.01	0.4	-	0.04	B2
Aldicarb**	D	0.007	0.007	D	-	-	-	-	0.001	0.035	0.007	-	D
Aldicarb sulfone**	D	0.007	0.007	D	*	*	*	*	0.001	0.035	0.007	-	D
Aldicarb sulfoxide**	D	0.007	0.007	D	-	-	-	-	0.001	0.035	0.007	-	D
Aldrin	F	zero	0.0005	D	0.0003	0.0003	0.0003	0.0003	0.00003	0.001	-	0.0002	B2
Ametryn	-	-	-	F	9	9	0.9	3	0.009	0.3	0.06	-	D
Ammonium sulfamate	-	-	-	F	20	20	20	80	0.26	8	2	-	D
Anthracene (PAH)***	-	-	-	-	-	-	-	-	0.3	-	-	-	D
Atrazine	F	0.003	0.003	F	0.1	0.1	0.05	0.2	0.035	0.2*	0.003*	-	C
Baygon	-	-	-	F	0.04	0.04	0.04	0.1	0.004	0.1	0.003	-	C
Bentazon	T	0.02	-	F	0.3	0.3	0.3	0.8	0.0026	0.09	0.02	-	D
Benz(a)anthracene (PAH)	-	-	-	-	-	-	-	-	-	-	-	-	B2
Benzene	F	zero	0.005	F	0.2	0.2	*	*	*	*	-	0.1	A
Benzo(a)pyrene (PAH)	F	zero	0.002	-	-	-	-	-	-	-	-	0.0002	B2*
Benzo(b)fluoranthene (PAH)	*	*	*	*	*	*	*	*	*	*	*	0.0002	B2
Benzo(g,h,i)perylene (PAH)	-	-	-	-	-	-	-	-	-	-	-	-	D
Benzo(k)fluoranthene (PAH)	*	*	*	*	*	*	*	*	*	*	-	0.0002	B2
bis-2-Chloroisopropyl ether	-	-	-	F	4	4	4	13	0.04	1	0.3	-	D
Bromacil	L	-	-	F	5	5	3	9	0.13	5	0.09	-	C
Bromobenzene	L	-	-	D	-	-	-	-	-	-	-	-	-

* Under review

**NOTE The HA value or the MCLG/MCL value for any two or more of these three chemicals should remain at 0.007 mg/L because of similar mode of action

****PAH = Polyaromatic hydrocarbon*

NOTE Anthracene and Benzo(g,h,i)perylene — not proposed in Phase V

NOTE Changes from the last version are noted in Italic and Bold Face print

Chemicals												
Bromochloroacetonitrile	L	-	-	D	-	-	-	-	-	-	-	-
Bromodichloromethane	[illegible]			[illegible]								
Bromodichloromethane (THM)	P	zero	0.1*/0.06	D	6	6	4	13	0.02	0.7	-	0.06
Bromoform (THM)	[illegible]			[illegible]								0.4
Bromomethane	T	-	-	F	0.1	0.1	0.1	0.5	0.001	0.04	0.01	-
Butyl benzyl phthalate (PAE)***	[illegible]			[illegible]								
Butylate	-	-	-	F	2	2	1	4	0.05	2	0.35	-
Butylbenzene n-	-	-	-	D	-	-	-	-	-	-	-	-
Butylbenzene sec-	-	-	-	D	-	-	-	-	-	-	-	-
Butylbenzene tert-	-	-	-	D	-	-	-	-	-	-	-	-
Carbaryl	-	-	-	F	1	1	1	1	0.1	4	0.7	-
Carbofuran	F	0.04	0.04	[illegible]								
Carbon tetrachloride	F	zero	0.005	F	4	0.2	0.07	0.3	0.0007	0.09	-	0.03
Carboxin	-	-	-	[illegible]								
Chloral hydrate	P	0.04	0.06**	D	7	0.2	0.2	0.8	0.0002	0.06	0.06	-
Chloramben	-	-	-	[illegible]								
Chlordane	F	zero	0.002	F	0.06	0.06	-	-	0.00006	0.002	-	0.003
Chlorodibromomethane (THM)	P	0.06	0.1*/0.06	[illegible]								
Chloroethane	L	-	-	D	-	-	-	-	-	-	-	-
Chloroform (THM)	P	zero	0.1*/0.06	[illegible]								0.6
Chloromethane	L	-	-	F	9	0.4	0.4	1	0.004	0.1	0.003	-
Chlorophenol (2-)	-	-	-	D	0.06	0.06	0.06	0.2	0.005	0.2	0.04	-
p-Chlorophenyl methyl sulfide/sulfone/sulfoxide	-	-	-	**	-	-	-	-	-	-	-	-
Chloropicrin	L	-	-	[illegible]								
Chlorothalonil	-	-	-	F	0.2	0.2	0.2	0.5	0.015	0.5	-	0.15
Chlorotoluene o-	L	-	-	F	2	2	2	7	0.02	0.7	0.1	-
Chlorotoluene p-	L	-	-	F	2	2	2	7	0.02	0.7	0.1	-
Chlorpyrifos	-	-	-	F	0.03	0.03	0.03	0.1	0.003	0.1	0.02	-
Cyanazine	T	0.001	-	D	0.1	0.1	0.02	0.07	0.002	0.07	0.001	-

* Current MCL "A HA will not be developed due to insufficient data; a "Database Deficiency Report has been published.
* 1994 Proposed rule for Disinfectants and Disinfection By-products : Total for all THMs combined cannot exceed the 0.06 level.
**Total for all haloacetic acids cannot exceed 0.06 level ****PAE = phthalate acid ester*

Drinking Water Standards and Health Advisories

Chemicals	Standards			Health Advisories								Cancer Group
					10-kg Child			70-kg Adult					
	[illegible]	MCLG	MCL	Lifetime HA	One-day (mg/l)	Ten-day (mg/l)	Longer-term (mg/l)	Longer-term (mg/l)	RfD (mg/kg/day)	DWEL (mg/l)	Lifetime (mg/l)	mg/l at 10^{-4} Cancer risk	
Cyanogen chloride	L	-	-	-	-	-	-	-	-	-	-	-	-
Cymene p-	[illegible]	[illegible]	[illegible]	D	-	-	-	-	-	-	-	-	-
2,4-D	F	0.07	0.07	F	1	0.3	0.1	0.4	0.01	0.4	0.07	-	D
DCPA (Dacthal)	[illegible]	[illegible]	[illegible]	F	[illegible]	[illegible]	[illegible]	20	0.5	20	4	-	D
Dalapon	F	0.2	0.2	F	3	3	0.3	0.9	0.026	0.9	0.2	-	D
Di[2-ethylhexyl]adipate	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Diazinon	-	-	-	F	0.02	0.02	0.005	0.02	0.00009	0.003	0.0006	-	E
Dibromoacetonitrile	L	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Dibromochloropropane (DBCP)	F	zero	0.0002	F	0.2	0.06	-	-	-	-	-	0.003	B2
Dibromomethane	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Dibutyl phthalate (PAE)	-	-	-	-	-	-	-	-	0.1	4	-	-	D
Dicamba	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Dichloroacetaldehyde	L	-	-	D	-	-	-	-	-	-	-	-	-
Dichloroacetic acid	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Dichloroacetonitrile	L	-	-	D	1	1	0.8	3	0.006	0.3	0.006	-	C
Dichlorobenzene	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Dichlorobenzene m- *	F	0.6	0.6	F	9	9	9	30	0.09	3	0.6	-	D
Dichlorobenzene o-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Dichlorodifluoromethane	L	-	-	F	40	40	9	30	0.2	6	1	-	D
Dichloroethane (1,1-)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Dichloroethane (1,2-)	F	zero	0.005	F	0.7	0.7	0.7	2.6	-	-	-	0.04	B2
Dichloroethylene (1,1-)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.4	0.007	-	C
Dichloroethylene (cis-1,2-)	F	0.07	0.07	F	4	3	3	11	0.01	0.4	0.07	-	D
Dichloroethylene (trans-1,2-)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.6	0.1	-	D
Dichloromethane	F	zero	0.005	F	10	2	-	-	0.06	2	-	0.5	B2
Dichlorophenol (2,4-)	[illegible]	[illegible]	[illegible]	D	[illegible]	[illegible]	[illegible]	0.1	[illegible]	0.1	0.02	-	D
Dichloropropane (1,1-)	-	-	-	D	-	-	-	-	-	-	-	-	-
Dichloropropane (1,2-)	F	zero	[illegible]	F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Dichloropropene (1,3-)	L	-	-	D	-	-	-	-	-	-	-	-	-

* The values for m-dichlorobenzene are based on data for o-dichlorobenzene.

** *A quantitative risk estimate has not been determined.*

** Total for all haloacetic acids cannot exceed 0.06 level.

Chemicals												
Dichloropropane (2,2-)	L	-	-	D	-	-	-	-	-	-	-	-
Dichloropropene (1,1-)	L	-	-	D	-	-	-	-	-	-	-	-
Dichloropropene (1,3-)	T	zero	-	F	0.03	0.03	0.03	0.09	0.0003	0.01	-	0.02
Dieldrin	-	-	-	F	0.0005	0.0005	0.0005	0.002	0.00003	0.002	-	0.0002
Diethyl phthalate (PAE)	-	-	-	D	-	-	-	-	0.8	30	5	-
Diethylene glycol dinitrate	-	-	-	D	-	-	-	-	-	-	-	-
Diethylhexyl phthalate (PAE)	F	zero	0.006	D	-	-	-	-	0.02	0.7	-	0.3
Diisopropyl methylphosphonate	-	-	-	F	8	8	8	30	0.8	3	0.8	-
Dimethrin	-	-	-	F	10	10	10	40	0.3	10	2	-
Dimethyl methylphosphonate	-	-	-	F	2	2	2	7	0.2	7	0.7	0.7
Dimethyl phthalate (PAE)	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dinitrobenzene	-	-	-	F	0.01	0.01	0.01	0.04	0.0001	0.003	0.001	-
Dinitrotoluene (2,4-)	L	-	-	F	0.50	0.50	0.30	1	0.002	0.1	-	0.005
Dinitrotoluene (2,6-)	L	-	-	F	0.50	0.50	0.30	1	0.002	0.1	-	0.005
tg 2,6 & 2,4 dinitrotoluene **	-	-	-	-	-	-	-	-	-	-	-	0.005
Dinoseb	F	0.007	0.007	F	0.2	0.2	0.07	0.2	0.007	0.02	0.007	-
Dioxane p-	-	-	-	F	4	0.4	-	-	-	-	-	0.7
Diphenamid	-	-	-	F	0.5	0.5	0.3	1	0.02	1	0.2	-
Diphenylamine	-	-	-	F	1	1	0.3	1	0.03	1	0.2	-
Diquat	F	0.02	0.02	F	0.2	0.2	0.2	0.6	0.0002	0.02	0.002	-
Disulfoton	-	-	-	F	0.01	0.01	0.003	0.009	0.00004	0.001	0.0003	-
Dithiane (1,4-)	-	-	-	F	0.4	0.4	0.1	0.4	0.001	0.04	0.01	-
Diuron	-	-	-	F	1	1	0.3	0.9	0.002	0.07	0.01	-
Endothall	F	0.1	0.1	F	0.6	0.6	0.2	0.6	0.002	0.07	0.01	-
Endrin	F	0.002	0.002	F	0.02	0.02	0.003	0.01	0.00003	0.001	0.002	-
Epichlorohydrin	F	zero	11	F	0.1	0.1	0.07	0.2	0.0006	0.07	0.1	0.4
Ethylbenzene	F	0.7	0.7	F	30	3	1	3	0.1	3	0.7	-
Ethylene dibromide (EDB)	F	zero	0.00005	F	0.005	0.005	-	-	-	-	-	0.00004
Ethylene glycol	-	-	-	F	20	6	6	20	2	40	7	-
ETU	L	-	-	F	0.3	0.3	0.1	0.4	0.00006	0.003	0.1	0.03
Fenamiphos	-	-	-	F	0.009	0.009	0.005	0.02	0.00025	0.009	0.002	-

* An HA will not be developed due to insufficient data; a "Database Deficiency Report" has been published.

** tg = technical grade

Drinking Water Standards and Health Advisories

Chemicals	Standards				Health Advisories							Cancer Potential
					10-kg Child			70-kg Adult				
					One-day (mg/L)	Ten-day (mg/L)	Long-term (mg/L)	Long-term (mg/L)	RfD (mg/kg/day)	DWEL (mg/L)	Lifetime (mg/L)	mg/L at 10^{-4} Cancer Risk
Fluometuron				F	2	2	2	9	0.013	0.4	0.09	-	D
Fluorene (PAH)	-	-	-	-	-	-	-	-	0.04	-	-	-	D
Fluorotrichloromethane	L	-	-	F	7	7	3	10	0.3	10	2	-	D
Fog Oil	-	-	-	D	-	-	-	-	-	-	-	-	-
Fonofos	-	-	-	F	0.02	0.02	0.02	0.07	0.002	0.07	0.01	-	D
Formaldehyde	D	-	-	D	10	5	5	20	0.15	5	1	-	B1**
Gasoline, unleaded (benzene)	-	-	-	-	-	-	-	-	-	-	0.005	-	-
Glyphosate	F	0.7	0.7	F	20	20	1	1	0.1	4	0.7	-	E
Heptachlor	F	zero	0.0004	F	0.01	0.01	0.005	0.005	0.0005	0.02	-	0.0008	B2
Heptachlor epoxide	F	zero	0.0002	F	0.01	-	0.0001	0.0001	1E-5	0.0004	-	0.0004	B2
Hexachlorobenzene	F	zero	0.0008	F	0.05	0.05	0.05	0.2	0.0008	0.03	-	0.002	B2
Hexachlorobutadiene	T	0.001	-	F	0.3	0.3	0.1	0.4	0.002	0.07	0.001	-	C
Hexachlorocyclopentadiene	F	0.05	0.05	F	1	1	1	1	0.007	0.2	-	-	D
Hexachloroethane	L	-	-	F	6	6	0.1	0.5	0.001	0.04	0.001	-	C
Hexane (n-)	-	-	-	F	10	4	4	10	-	-	-	-	D
Hexazinone	-	-	-	F	3	3	3	9	0.033	1	0.2	-	D
HMX	-	-	-	F	6	6	6	20	0.05	2	0.4	-	D
Indeno(1,2,3,-c,d)pyrene (PAH)	-	-	-	D	-	-	-	-	-	-	-	-	B2
Isophorone	L	-	-	F	15	15	15	15	0.2	7	0.1	4	C
Isopropyl methylphosphonate	-	-	-	D	30	30	30	100	0.1	4.0	0.7	-	D
Isopropylbenzene	-	-	-	D	-	-	-	-	-	-	-	-	-
Lindane	F	0.0002	0.0002	F	1	1	0.03	0.1	0.0003	0.01	0.0002	-	C
Malathion	-	-	-	F	0.2	0.2	0.2	0.8	0.02	0.8	0.2	-	D
Maleic hydrazide	-	-	-	F	10	10	5	20	0.5	20	4	-	D
MCPA	-	-	-	F	0.1	0.1	0.1	0.4	0.0016	0.06	0.01	-	E
Methomyl	L	-	-	F	0.3	0.3	0.3	0.3	0.025	0.9	0.2	-	D
Methoxychlor	F	0.04	0.04	F	0.05	0.05	0.05	0.2	0.005	0.2	0.04	-	D
Methyl ethyl ketone	-	-	-	F	-	-	-	-	-	-	-	-	*
Methyl parathion	-	-	-	F	0.3	0.3	0.03	0.1	0.00025	0.009	0.002	-	D

* Under review

** *Carcinogenicity based on inhalation exposure.*

Chemicals											
Methyl tert butyl ether	L	-	-	D	24	24	3	12	0.03	1.0	0.02-0.2*	-
Metolachlor	L											-
Metribuzin	L	-	-	F	5	5	0.3	0.8	0.013**	0.8	0.1	-
Monochloroacetic acid	L											-
Monochlorobenzene	F	0.1	0.1	F	2	2	2	7	0.02	0.7	0.1	-
Naphthalene												-
Nitrocellulose (non-toxic)	-	-	-	F	-	-	-	-	-	-	-	-
Nitroguanidine												-
Nitrophenol p-	-	-	-	F	0.8	0.8	0.8	3	0.008	0.3	0.08	-
Oxamyl (Vydate)	F	0.2	0.2									-
Paraquat	-	-	-	F	0.1	0.1	0.05	0.2	0.0045	0.2	0.03	-
Pentachloroethane												-
Pentachlorophenol	F	zero	0.001	F	1	0.3	0.3	1	0.03	1	-	0.03
Phenanthrene (PAH)	-	-	-									-
Phenol	-	-	-	D	6	6	6	20	0.6	20	4	-
Picloram	F	0.5	0.5	F	20	20	0.7	2	0.07	2	0.5	-
Polychlorinated biphenyls (PCBs)	F	zero	0.0005	P	-	-	-	-	-	-	-	0.0005
Prometon	L			F	0.2	0.2	0.2	0.6	0.015*	0.6*	0.1*	-
Pronamide	-	-	-	F	0.8	0.8	0.8	3	0.075	3	0.05	-
Propachlor				F	0.5	0.5	0.1	0.6	0.045	0.6	0.09	-
Propazine	-	-	-	F	1	1	0.5	2	0.02	0.7	0.01	-
Propham***	-	-	-	F	5	5	5	20	0.02	0.8	0.1	-
Propylben.	-	-	-	D	-	-	-	-	-	-	-	-
Pyrene (PAH)	-	-	-						0.05			-
RDX	-	-	-	F	0.1	0.1	0.1	0.4	0.003	0.1	0.002	0.03
Simazine	F	0.004	0.004	F	0.07	0.07	0.07	0.07	0.035	0.2	0.004	-
Styrene	F	0.1	0.1	F	20	2	2	7	0.2	7	0.1	-
2,4,5-T	L	-	-	F	0.8	0.8	0.8	1	0.01	0.35	0.07	-
2,3,7,8-TCDD (Dioxin)	F	zero	3E-08	F	1E-08	1E-07	1E-08	4E-08	1E-09	4E-08	-	2E-08

* Under review NOTE Phenanthrene — not proposed.

** *The RfD for metribuzin was revised Dec. 1994 to 0.013 mg/kg/day. Based on this revised RfD the Lifetime HA would be 0.1 mg/l assuming a 20% relative source contribution for water. This information has not been incorporated in the Health Advisory document.*

*** *Tentative.*

* *If the cancer classification C is accepted, the Lifetime HA is 0.20; other wise it is 0.200 mg/L*

Drinking Water Standards and Health Advisories

Chemicals	Standards			Health Advisories								Cancer Group
					10-kg Child			70-kg Adult				
					One-day (mg/l)	Ten-day (mg/l)	Longer-term (mg/l)	Longer-term (mg/l)	RfD (mg/kg/day)	DWEL (mg/l)	Lifetime (mg/l)	mg/l at 10-4 Cancer Risk	
Tebuthiuron	-	-	-	F	3	3	0.7	2	0.07	2	0.5	-	D
Terbacil	-	-	-	F	0.3	0.3	0.3	0.9	0.013	0.4	0.09	-	E
Terbufos	-	-	-	F	0.005	0.005	0.001	0.005	0.00013	0.005	0.0009	-	D
Tetrachloroethane (1,1,1,2-)	L	-	-	F	2	2	0.8	3	0.03	1	0.07	0.1	C
Tetrachloroethane (1,1,2,2-)	L	-	-	D	-	-	-	-	-	-	-	-	-
Tetrachloroethylene	F	zero	0.005	F	2	2	1	5	0.01	0.6	-	0.07	-
Tetranitromethane	-	-	-	**	-	-	-	-	-	-	-	-	-
Toluene	F	1	1	F	20	2	2	7	0.2	7	1	-	D
Toxaphene	F	zero	0.003	F	-	-	-	-	0.1	-	-	0.003	B2
2,4,5-TP	F	0.05	0.05	F	0.2	0.2	0.07	0.3	0.0075	0.3	0.05	-	D
1,1,2-Trichloro-1,2,2-trifluoroethane	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroacetic acid	P	0.2	0.003	P	4	4	4	13	0.1	4.0	0.3	-	D
Trichloroacetonitrile	L	-	-	D	0.05	0.05	-	-	-	-	-	-	-
Trichlorobenzene (1,2,4-)	F	0.07	0.07	F	0.1	0.1	0.1	0.5	0.001	0.04	0.07	-	D
Trichlorobenzene (1,3,5-)	-	-	-	F	0.6	0.6	0.6	2	0.008	0.2	0.04	-	D
Trichloroethane (1,1,1-)	F	0.2	0.2	F	100	40	40	100	0.035	1	0.2	-	D
Trichloroethane (1,1,2-)	F	0.003	0.005	F	0.6	0.4	0.4	1	0.004	0.1	0.003	-	C
Trichloroethanol (2,2,2-)	L	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	F	zero	0.005	F	-	-	-	-	-	0.3	-	0.3	B2
Trichlorophenol (2,4,6-)	L	-	-	D	-	-	-	-	-	-	-	0.3	B2
Trichloropropane (1,1,1-)	-	-	-	D	-	-	-	-	-	-	-	-	-
Trichloropropane (1,2,3-)	L	-	-	F	0.6	0.6	0.6	2	0.006	0.2	0.04	0.6	B2
Trifluralin	L	-	-	F	0.08	0.08	0.08	0.3	0.0075	0.3	0.005	0.5	C
Trimethylbenzene (1,2,4-)	-	-	-	D	-	-	-	-	-	-	-	-	-
Trimethylbenzene (1,3,5-)	-	-	-	D	-	-	-	-	-	-	-	-	-
Trinitroglycerol	-	-	-	-	0.005	0.005	0.005	0.005	-	-	0.005	-	-
Trinitrotoluene	-	-	-	F	0.02	0.02	0.02	0.02	0.0005	0.02	0.002	0.1	C
Vinyl chloride	F	zero	0.002	F	3	3	0.01	0.05	-	-	-	0.0015	A
Xylenes	F	10	10	F	40	40	40	100	2	60	10	-	D

* Under review

** A HA will not be developed due to insufficient data, a "Database Deficiency Report" has been published.

** Total for all haloacetic acids cannot exceed 0.05 mg/l level.

Chemicals	[illegible] Reg.	[illegible] (mg/L)	[illegible] (mg/L)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] Cancer Risk	[illegible]
INORGANICS													
Aluminum	L	-	-	D	-	-	-	-	-	-	-	-	-
Ammonia	L	[illegible]	[illegible]	D	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	D
Antimony	F	0.006	0.006	F	0.01	0.01	0.01	0.015	0.0004	0.01	0.003	-	D
Arsenic	[illegible]	[illegible]	0.05	D	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.002	A
Asbestos (fibers/l >10μm length)	F	7 MFL	7 MFL	-	-	-	-	-	-	-	-	700 MFL	A
Barium	F	2	2	F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	D
Beryllium	F	0.004	0.004	D	30	30	4	20	0.008	0.2	-	0.0008	B2
Boron	L	[illegible]	[illegible]	D	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	D
Bromate	L	zero	0.01	-	-	-	-	-	-	-	-	-	-
Cadmium	F	[illegible]	[illegible]	F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	D
Chloramine	P	4***	4	D	1	1	1	1	0.1	3.3	3/4***	-	-
Chlorate	L	-	-	D	-	-	-	-	-	-	-	-	-
Chlorine	P	4	4	D	-	-	-	-	0.1	-	-	-	D
Chlorine dioxide	P	0.8	0.8	D	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	D
Chlorite	L	0.08	1	D	-	-	-	-	0.003	0.1	0.08	-	D
Chromium (total)	F	0.1	0.1	F	1	1	0.2	0.6	0.005	0.2	0.1	-	D
Copper *(at tap)*	F	1.3	[illegible]**	-	-	-	-	-	-	-	-	-	D
Cyanide	P	0.2	0.2	F	0.2	0.2	0.2	0.6	0.022	0.6	0.2	-	D
Fluoride*	F	4	4	-	-	-	-	-	0.12	-	-	-	-
Hypochlorite	P	4[1]	-	-	-	-	-	-	-	-	-	-	-
Hypochlorous acid	P	4[1]	-	-	-	-	-	-	-	-	-	-	-
Lead (at tap)	F	zero	TT**	-	-	-	-	-	-	-	-	-	B2
Manganese	L	-	-	D	-	-	-	-	0.14[7] 0.005[3]	-	-	-	-
Mercury (inorganic)	F	0.002	0.002	F	[illegible]	[illegible]	[illegible]	0.002	[illegible]	0.01	0.002	-	D
Molybdenum	L	-	-	D	0.04	0.04	0.04	0.05	0.005	0.2	0.04	-	D
Nickel	F	0.1[4]	0.1[4]	F	1	1	0.5	1.7	[illegible]	0.6	0.1	-	D
Nitrate (as N)	F	10	10	F	-	10*	-	-	1.8	-	-	-	*

* Under review ** Copper — action level 1.3 mg/L. *** Measured as free chlorine.
Lead — action level 0.015 mg/L.
[1] Regulated as chlorine [3] In food [7] In water [4] *Being remanded*

Drinking Water Standards and Health Advisories

Chemical												
Nitrite (as N)	F	1	1	F	-	1*	-	-	0.16*	-	-	-	*
Nitrate + Nitrite (both as N)	F	10	10	F	-	-	-	-	-	-	-	-	*
Selenium	F	0.05	0.05	-	-	-	-	-	0.005	-	-	-	-
Silver	[illegible]			[illegible]	0.2	0.2	0.2	0.2	[illegible]	0.2	0.1	-	D
Sodium	-	-	-	D	-	-	-	-	-	20**	-	-	-
Strontium	L			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17	-	D
Sulfate	P	500	500	D	-	-	-	-	-	-	-	-	-
Thallium	[illegible]			[illegible]	0.007	0.007	0.007	0.02	0.00007	0.002	0.0004	-	-
Vanadium	L	-	-	D	-	-	-	-	-	-	-	-	D
White phosphorous	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.00002	0.0005	0.0001		D
Zinc	L	-	-	F	6	6	3	10	0.3	10	2	-	D
Zinc chloride (measured as Zinc)	L			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2	-	D
RADIONUCLIDES													
Beta particle and photon activity (formerly man-made radionuclides)	P	zero	4 mrem/y	-	-	-	-	-	-	-	-	4 mrem/y	A
Gross alpha particle activity	P	zero	15 pCi/L	-	-	-	-	-	-	-	-	15 pCi/L	A
Radium 226	P	zero	20 pCi/L	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	20 pCi/L	A
Radium 228	P	zero	20 pCi/L	-	-	-	-	-	-	-	-	20 pCi/L	A
Radon	P	zero	300 pCi/L+	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	150 pCi/L	A
Uranium	P	zero	20 µg/L	-	-	-	-	-	0.003	-	-	-	A

* Under review ** Guidance

+1991 Proposed National Primary Drinking Water Rule for Radionuclides

Secondary Maximum Contaminant Levels

Aluminum	F	0.05 to 0.2
Chloride	F	250
Color	F	15 color units
Copper	F	1.0
Corrosivity	F	non-corrosive
Fluoride	F	2.0
Foaming agents	F	0.5
Iron	F	0.3
Manganese	F	0.05
Odor	F	3 threshold odor numbers
pH	F	6.5 — 8.5
Silver	F	0.1
Sulfate	F	250
Total dissolved solids (TDS)	F	500
Zinc	F	5

Status Codes: P — proposed, F — final

* Under review.

Microbiology

	Status	MCLG	MCL
Cryptosporidium	L	-	-
Giardia lamblia	F	zero	TT
Legionella	F	zero	TT
Standard Plate Count	F	NA	TT
Total Coliforms	F	zero	**
Turbidity	F	NA	PS
Viruses	F	zero	TT

Key: PS, TT, F, defined as previously stated.

Final for systems using surface water; also being considered for regulation under groundwater disinfection rule.